#### Federal Aviation Administration, DOT

- (d) Gaseous exhaust emissions from each new aircraft gas turbine engine shall not exceed:
- (1) For Classes TF, T3, T8 engines greater than 26.7 kilonewtons (6000 pounds) rated output:
- (i) Engines manufactured on or after January 1, 1984:

Hydrocarbons: 19.6 grams/kilonewton r0.

(ii) Engines manufactured on or after July 7, 1997.

Carbon Monoxide: 118 grams/kilonewton r0.

(iii) Engines of a type or model of which the date of manufacture of the first individual production model was on or before December 31, 1995, and for which the date of manufacture of the individual engine was on or before December 31, 1999:

Oxides of Nitrogen: (40+2(rPR)) grams/kilonewtons r0.

(iv) Engines of a type or model of which the date of manufacture of the first individual production model was after December 31, 1995, or for which the date of manufacture of the individual engine was after December 31, 1999:

Oxides of Nitrogen: (32+1.6 (rPR)) grams/ kilonewtons r0.

- (v) The emission standards prescribed in paragraphs (d)(1)(iii) and (iv) of this section apply as prescribed beginning July 7, 1997.
- (2) For Class TSS Engines manufactured on or after January 1, 1984:

 $\begin{array}{ll} \mbox{Hydrocarbons=140} & (0.92)\,^{\rm rPR} & \mbox{grams/} \\ \mbox{kilonewtons r0.} \end{array}$ 

- (e) Smoke exhaust emissions from each gas turbine engine of the classes specified below shall not exceed:
- (1) Class TF of rated output less than 26.7 kilonewtons (6000 pounds) manufactured on or after August 9, 1985

 $SN=83.6(rO)^{-0.274}$  (rO is in kilonewtons) not to exceed a maximum of SN=50.

(2) Classes T3, T8, TSS, and TF of rated output equal to or greater than 26.7 kilonewtons (6000 pounds) manufactured on or after January 1, 1984

 $SN=83.6(rO)^{-0.274}$  (rO is in kilonewtons) not to exceed a maximum of SN=50.

(3) For Class TP of rated output equal to or greater than 1,000 kilowatts

manufactured on or after January 1,

 $SN=187(ro)^{-0.168}$  (ro is in kilowatts)

(f) The standards set forth in paragraphs (a), (b), (c), (d), and (e) of this section refer to a composite gaseous emission sample representing the operating cycles set forth in the applicable sections of subpart G of this part, and exhaust smoke emissions emitted during operations of the engine as specified in the applicable sections of subpart H of this part, measured and calculated in accordance with the procedures set forth in those subparts.

[Doc. No. 25613, 55 FR 32861, Aug. 10, 1990; 55 FR 37287, Sept. 10, 1990, as amended by Amdt. 34–3, 64 FR 5559, Feb. 3, 1999]

# Subpart D—Exhaust Emissions (Inuse Aircraft Gas Turbine Engines)

#### § 34.30 Applicability.

The provisions of this subpart are applicable to all in-use aircraft gas turbine engines certificated for operation within the United States of the classes specified, beginning on the dates specified in §34.31.

## §34.31 Standards for exhaust emissions.

- (a) Exhaust emissions of smoke from each in-use aircraft gas turbine engine of Class T8, beginning February 1, 1974, shall not exceed a smoke number (SN) of 30.
- (b) Exhaust emissions of smoke from each in-use aircraft gas turbine engine of Class TF and of rated output of 129 kilonewtons (29,000 pounds) thrust or greater, beginning January 1, 1976, shall not exceed

SN=83.6(rO) $^{-0.274}$  (rO is in kilonewtons).

(c) The standards set forth in paragraphs (a) and (b) of this section refer to exhaust smoke emissions emitted during operations of the engine as specified in the applicable section of subpart H of this part, and measured and calculated in accordance with the procedure set forth in this subpart.

### Subparts E-F [Reserved]